

**INTERNATIONAL
STANDARD**

**ISO
10303-41**

Second edition
2000-11-01

**Industrial automation systems and
integration — Product data representation
and exchange —**

**Part 41:
Integrated generic resource:
Fundamentals of product description and
support**

*Systèmes d'automatisation industrielle et intégration — Représentation
et échange de données de produits —*

*Partie 41: Ressources génériques intégrées: Principes de description
et de support de produits*

“This material is reproduced from ISO documents under International Organization for Standardization (ISO) Copyright License Number HIS/CC/1996. Not for resale. No part of these ISO documents may be reproduced in any form, electronic retrieval system or otherwise, except as allowed in the copyright law of the country of use, or with the prior written consent of ISO (Case postale 56, 1211 Geneva 20, Switzerland Fax +41 22 734 10 79), IHS or the ISO Licensor's members.



Reference number
ISO 10303-41:2000(E)

© ISO 2000

ISO 10303-41:2000(E)

PDF disclaimer

This PDF file may contain embedded typefaces. In accordance with Adobe's licensing policy, this file may be printed or viewed but shall not be edited unless the typefaces which are embedded are licensed to and installed on the computer performing the editing. In downloading this file, parties accept therein the responsibility of not infringing Adobe's licensing policy. The ISO Central Secretariat accepts no liability in this area.

Adobe is a trademark of Adobe Systems Incorporated.

Details of the software products used to create this PDF file can be found in the General Info relative to the file; the PDF-creation parameters were optimized for printing. Every care has been taken to ensure that the file is suitable for use by ISO member bodies. In the unlikely event that a problem relating to it is found, please inform the Central Secretariat at the address given below.

© ISO 2000

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from either ISO at the address below or ISO's member body in the country of the requester.

ISO copyright office
Case postale 56 • CH-1211 Geneva 20
Tel. + 41 22 749 01 11
Fax + 41 22 749 09 47
E-mail copyright@iso.ch
Web www.iso.ch

Printed in Switzerland

Contents	Page
1 Scope	1
1.1 Generic product description resources	1
1.2 Generic management resources	2
1.3 Support resources	2
2 Normative references	2
3 Terms, definitions, and abbreviations	3
3.1 Terms defined in ISO 10303-1	3
3.2 Terms defined in ISO 8601	4
3.3 Other terms and definitions	4
3.4 Abbreviations	5
4 Application context	5
4.1 Introduction	6
4.2 Fundamental concepts and assumptions	6
4.3 Application context entity definitions	6
4.3.1 application_context	6
4.3.2 application_context_element	7
4.3.3 application_context_relationship	8
4.3.4 application_protocol_definition	9
4.3.5 library_context	9
4.3.6 product_concept_context	10
4.3.7 product_context	10
4.3.8 product_definition_context	11
5 Product definition	12
5.1 Introduction	13
5.2 Fundamental concepts and assumptions	13
5.3 Product definition type definition: source	14
5.4 Product definition entity definitions	14
5.4.1 product	14
5.4.2 product_category	15
5.4.3 product_category_relationship	16
5.4.4 product_definition	18
5.4.5 product_definition_context_association	19
5.4.6 product_definition_context_role	20
5.4.7 product_definition_effectivity	20
5.4.8 product_definition_formation	21
5.4.9 product_definition_formation_relationship	22
5.4.10 product_definition_formation_with_specified_source	23
5.4.11 product_definition_relationship	23
5.4.12 product_definition_substitute	24
5.4.13 product_definition_with_associated_documents	26
5.4.14 product_related_product_category	26
5.4.15 product_relationship	26
5.5 Product definition function definitions	27
5.5.1 acyclic_product_category_relationship	27
5.5.2 acyclic_product_definition_formation_relationship	28
5.5.3 acyclic_product_definition_relationship	29
5.5.4 acyclic_product_relationship	30